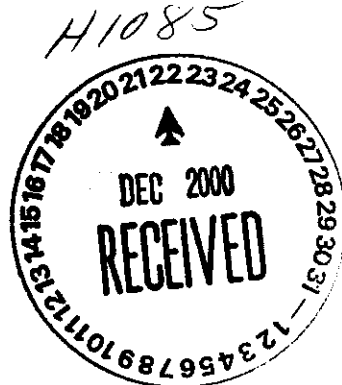


0054395



Recra LabNet - Lionville Laboratory  
INORGANIC ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD B00-029 H1085

DATE RECEIVED: 12/06/00

RFW LOT # :0012L466

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
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B10F56

TCLP	001	S	00LTO140	10/03/00	12/12/00	12/13/00
SILVER, TCLP LEACHAT	002	W	99L1808	12/13/00	12/13/00	12/14/00
SILVER, TCLP LEACHAT	002 REP	W	99L1808	12/13/00	12/13/00	12/14/00
SILVER, TCLP LEACHAT	002 MS	W	99L1808	12/13/00	12/13/00	12/14/00
ARSENIC, TCLP LEACHA	002	W	99L1808	12/13/00	12/13/00	12/15/00
ARSENIC, TCLP LEACHA	002 REP	W	99L1808	12/13/00	12/13/00	12/15/00
ARSENIC, TCLP LEACHA	002 MS	W	99L1808	12/13/00	12/13/00	12/15/00
BARIUM, TCLP LEACHAT	002	W	99L1808	12/13/00	12/13/00	12/14/00
BARIUM, TCLP LEACHAT	002 REP	W	99L1808	12/13/00	12/13/00	12/14/00
BARIUM, TCLP LEACHAT	002 MS	W	99L1808	12/13/00	12/13/00	12/14/00
CADMIUM, TCLP LEACHA	002	W	99L1808	12/13/00	12/13/00	12/14/00
CADMIUM, TCLP LEACHA	002 REP	W	99L1808	12/13/00	12/13/00	12/14/00
CADMIUM, TCLP LEACHA	002 MS	W	99L1808	12/13/00	12/13/00	12/14/00
CHROMIUM, TCLP LEACH	002	W	99L1808	12/13/00	12/13/00	12/14/00
CHROMIUM, TCLP LEACH	002 REP	W	99L1808	12/13/00	12/13/00	12/14/00
CHROMIUM, TCLP LEACH	002 MS	W	99L1808	12/13/00	12/13/00	12/14/00
MERCURY, TCLP LEACHA	002	W	00C0429	12/13/00	12/13/00	12/14/00
MERCURY, TCLP LEACHA	002 REP	W	00C0429	12/13/00	12/13/00	12/14/00
MERCURY, TCLP LEACHA	002 MS	W	00C0429	12/13/00	12/13/00	12/14/00
LEAD, TCLP LEACHATE	002	W	99L1808	12/13/00	12/13/00	12/14/00
LEAD, TCLP LEACHATE	002 REP	W	99L1808	12/13/00	12/13/00	12/14/00
LEAD, TCLP LEACHATE	002 MS	W	99L1808	12/13/00	12/13/00	12/14/00
SELENIUM, TCLP LEACH	002	W	99L1808	12/13/00	12/13/00	12/14/00
SELENIUM, TCLP LEACH	002 REP	W	99L1808	12/13/00	12/13/00	12/14/00
SELENIUM, TCLP LEACH	002 MS	W	99L1808	12/13/00	12/13/00	12/14/00

LAB QC:

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EDMC

SILVER LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/14/00
SILVER, TCLP LEACHAT	MB1	W	99L1808	N/A	12/13/00	12/14/00
SILVER, TCLP LEACHAT	MB2	W	99L1808	N/A	12/13/00	12/14/00
ARSENIC LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/15/00
ARSENIC, TCLP LEACHA	MB1	W	99L1808	N/A	12/13/00	12/15/00
ARSENIC, TCLP LEACHA	MB2	W	99L1808	N/A	12/13/00	12/15/00
BARIUM LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/14/00

Recra LabNet - Lionville Laboratory  
INORGANIC ANALYTICAL DATA PACKAGE FOR  
TNUHANFORD B00-029 H1085

DATE RECEIVED: 12/06/00

RFW LOT # :0012L466

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
BARIUM, TCLP LEACHAT	MB1	W	99L1808	N/A	12/13/00	12/14/00
BARIUM, TCLP LEACHAT	MB2	W	99L1808	N/A	12/13/00	12/14/00
CADMIUM LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/14/00
CADMIUM, TCLP LEACHA	MB1	W	99L1808	N/A	12/13/00	12/14/00
CADMIUM, TCLP LEACHA	MB2	W	99L1808	N/A	12/13/00	12/14/00
CHROMIUM LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/14/00
CHROMIUM, TCLP LEACH	MB1	W	99L1808	N/A	12/13/00	12/14/00
CHROMIUM, TCLP LEACH	MB2	W	99L1808	N/A	12/13/00	12/14/00
MERCURY LABORATORY	LC1 BS	W	00C0429	N/A	12/13/00	12/14/00
MERCURY, TOTAL	MB1	W	00C0429	N/A	12/13/00	12/14/00
MERCURY, TCLP LEACHA	MB2	W	00C0429	N/A	12/13/00	12/14/00
LEAD LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/14/00
LEAD, TCLP LEACHATE	MB1	W	99L1808	N/A	12/13/00	12/14/00
LEAD, TCLP LEACHATE	MB2	W	99L1808	N/A	12/13/00	12/14/00
SELENIUM LABORATORY	LC1 BS	W	99L1808	N/A	12/13/00	12/14/00
SELENIUM, TCLP LEACH	MB1	W	99L1808	N/A	12/13/00	12/14/00
SELENIUM, TCLP LEACH	MB2	W	99L1808	N/A	12/13/00	12/14/00



**Recra LabNet Philadelphia  
Analytical Report**

**Client:** TNU-HANFORD B00-029  
**RFW#:** 0012L466  
**SDG/SAF#:** H1085/B00-029

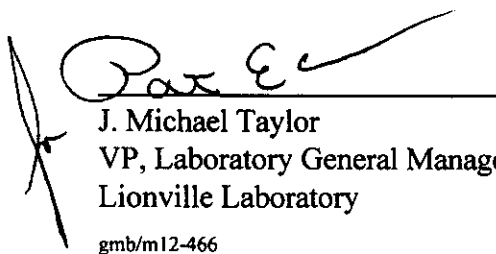
**W.O.#:** 10985-001-001-9999-00  
**Date Received:** 12-06-00

**METALS CASE NARRATIVE**

1. This narrative covers the analyses of 1 TCLP leachate sample.
2. The sample was prepared and analyzed in accordance with methods checked on the attached glossary. This is a relog of Recra batch# 0010L919-002.
3. All analyses were performed within the required holding times.
4. All cooler temperatures have been recorded on the original Chain of Custody.
5. All Initial and Continuing Calibration Verifications (ICV/CCVs) were within the 90-110% control limits (80-120% for Mercury).
6. All Initial and Continuing Calibration Blanks (ICB/CCBs) were within control limits (less than the PQL) with the exception of Arsenic in file PS1214C. All samples were rerun for Arsenic in file PS1215A.
7. All preparation/method blanks (MB) were within method criteria {less than the Practical Quantitation Limit (3X the IDL), MB value less than 5% of the RCRA limit, or samples greater than 20X MB value}. Refer to the Inorganics Method Blank Data Summary.
8. All ICP Interference Check Standards were within control limits.
9. All laboratory control samples (LCS) were within the 80-120% control limits. Refer to form 7.
10. All duplicate analyses were within the 20% Relative Percent Difference (RPD) control limits. Refer to the Inorganics Precision Report.
11. The TCLP extract from sample B10F56 was selected for the matrix spike (MS) for this analytical batch. All MS recoveries were greater than 50% as per method criteria.

The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 12 pages.

12. For the purposes of this report, the data has been reported to the Instrument Detection Limit (IDL). Values between the IDL and the Practical Quantitation Limit (PQL) are acquired in a region of less-certain quantification.
13. I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature.

  
J. Michael Taylor  
VP, Laboratory General Manager  
Lionville Laboratory  
gmb/m12-466

12-19-00  
Date



# METALS METHOD GLOSSARY

The following methods are used as reference for the digestion and analysis of samples contained within this

Recra Lot#: 0012 L466

Leaching Procedure: 1310 ☒ 1311 1312 Other: \_\_\_\_\_

CLP Metals    Digestion and    Analysis Methods:   ILM03.0   ILM04.0

Metals Digestion Methods:   3005A ☒ 3010A   3015   3020A   3050B   3051   200.7   SS17  
  Other: \_\_\_\_\_

## Metals Analysis Methods

	SW846	EPA	STD MTD	EPA OSWR	USATHAMA
Aluminum	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Antimony	<u>6010B</u> <u>7041</u> <sup>5</sup>	<u>200.7</u> <u>204.2</u>			<u>99</u>
Arsenic	<input checked="" type="checkbox"/> <u>6010B</u> <u>7060A</u> <sup>5</sup>	<u>200.7</u> <u>206.2</u>	<u>3113B</u>		<u>99</u>
Barium	<input checked="" type="checkbox"/> <u>6010B</u>	<u>200.7</u>			<u>99</u>
Beryllium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Bismuth	<u>6010B</u> <sup>1</sup>	<u>200.7</u> <sup>1</sup>		<u>1620</u>	<u>99</u>
Boron	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Cadmium	<input checked="" type="checkbox"/> <u>6010B</u> <u>7131A</u> <sup>5</sup>	<u>200.7</u> <u>213.2</u>			<u>99</u>
Calcium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Chromium	<input checked="" type="checkbox"/> <u>6010B</u> <u>7191</u> <sup>5</sup>	<u>200.7</u> <u>218.2</u>			<u>SS17</u>
Cobalt	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Copper	<u>6010B</u> <u>7211</u> <sup>5</sup>	<u>200.7</u> <u>220.2</u>			<u>99</u>
Iron	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Lead	<input checked="" type="checkbox"/> <u>6010B</u> <u>7421</u> <sup>5</sup>	<u>200.7</u> <u>239.2</u>	<u>3113B</u>		<u>99</u>
Lithium	<u>6010B</u> <u>7430</u> <sup>4</sup>	<u>200.7</u>		<u>1620</u>	<u>99</u>
Magnesium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Manganese	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Mercury	<input checked="" type="checkbox"/> <u>7470A</u> <sup>3</sup> <u>7471A</u> <sup>3</sup>	<u>245.1</u> <sup>2</sup> <u>245.5</u> <sup>2</sup>			<u>99</u>
Molybdenum	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Nickel	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Potassium	<u>6010B</u> <u>7610</u> <sup>4</sup>	<u>200.7</u> <u>258.1</u> <sup>4</sup>			<u>99</u>
Rare Earths	<u>6010B</u> <sup>1</sup>	<u>200.7</u> <sup>1</sup>		<u>1620</u>	<u>99</u>
Selenium	<input checked="" type="checkbox"/> <u>6010B</u> <u>7740</u> <sup>5</sup>	<u>200.7</u> <u>270.2</u>	<u>3113B</u>		<u>99</u>
Silicon	<u>6010B</u> <sup>1</sup>	<u>200.7</u>		<u>1620</u>	<u>99</u>
Silica	<u>6010B</u>	<u>200.7</u>		<u>1620</u>	<u>99</u>
Silver	<input checked="" type="checkbox"/> <u>6010B</u> <u>7761</u> <sup>5</sup>	<u>200.7</u> <u>272.2</u>			<u>99</u>
Sodium	<u>6010B</u> <u>7770</u> <sup>4</sup>	<u>200.7</u> <u>273.1</u> <sup>4</sup>			<u>99</u>
Strontium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Thallium	<u>6010B</u> <u>7841</u> <sup>5</sup>	<u>200.7</u> <u>279.2</u> <u>200.9</u>			<u>99</u>
Tin	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Titanium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Uranium	<u>6010B</u> <sup>1</sup>	<u>200.7</u> <sup>1</sup>		<u>1620</u>	<u>99</u>
Vanadium	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Zinc	<u>6010B</u>	<u>200.7</u>			<u>99</u>
Zirconium	<u>6010B</u> <sup>1</sup>	<u>200.7</u> <sup>1</sup>		<u>1620</u>	<u>99</u>

Other: \_\_\_\_\_

Method: \_\_\_\_\_

# METHOD REFERENCES AND DATA QUALIFIERS

## DATA QUALIFIERS

- U = Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.
- \* = Indicates that the original sample result is greater than 4x the spike amount added.

## ABBREVIATIONS

- MB = Method or Preparation Blank.  
MS = Matrix Spike.  
MSD = Matrix Spike Duplicate.  
REP = Sample Replicate  
LCS = Laboratory Control Sample.  
NC = Not calculated.

## ANALYTICAL METAL METHODS

1. Not included in the method element list.
2. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, 0.1 grams of sample is taken to a final volume of 50 mL (including all reagents).
3. Modified Hg: Hg1 and Hg2 require less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionately scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 mL. For soils, three 0.1 gram of sample is taken to a final volume of 50 mL (including all reagents).
4. Flame AA.
5. Graphite Furnace AA.

RFW 21-21L-033/N-10/96

Recra LabNet - Lionville

INORGANICS DATA SUMMARY REPORT 12/15/00

CLIENT: TNUHANFORD B00-029, H1085  
WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 0012L466

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
-----	-----	-----	-----	-----	-----	-----
-002	B10F56	Silver, TCLP Leachate	2.5	u UG/L	2.5	1.0
		Arsenic, TCLP Leachate	33.9	u UG/L	33.9	1.0
		Barium, TCLP Leachate	372	UG/L	3.0	1.0
		Cadmium, TCLP Leachate	17.4	UG/L	3.4	1.0
		Chromium, TCLP Leachate	98.9	UG/L	4.9	1.0
		Mercury, TCLP Leachate	0.80	UG/L	0.10	1.0
		Lead, TCLP Leachate	25.0	u UG/L	25.0	1.0
		Selenium, TCLP Leachate	62.3	u UG/L	62.3	1.0

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INORGANICS METHOD BLANK DATA SUMMARY PAGE 12/15/00

CLIENT: TNUHANFORD B00-029.H1085  
WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 0012L466

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT	DILUTION FACTOR
*****	*****	*****	*****	*****	*****	*****
BLANK1	99L1808-MB1	Silver, TCLP Leachate	2.5	u UG/L	2.5	1.0
		Arsenic, TCLP Leachate	33.9	u UG/L	33.9	1.0
		Barium, TCLP Leachate	3.0	u UG/L	3.0	1.0
		Cadmium, TCLP Leachate	3.4	u UG/L	3.4	1.0
		Chromium, TCLP Leachate	4.9	u UG/L	4.9	1.0
		Lead, TCLP Leachate	25.0	u UG/L	25.0	1.0
		Selenium, TCLP Leachate	62.3	u UG/L	62.3	1.0
BLANK2	99L1808-MB2	Silver, TCLP Leachate	2.5	u UG/L	2.5	1.0
		Arsenic, TCLP Leachate	33.9	u UG/L	33.9	1.0
		Barium, TCLP Leachate	3.0	u UG/L	3.0	1.0
		Cadmium, TCLP Leachate	3.4	u UG/L	3.4	1.0
		Chromium, TCLP Leachate	4.9	u UG/L	4.9	1.0
		Lead, TCLP Leachate	25.0	u UG/L	25.0	1.0
		Selenium, TCLP Leachate	62.3	u UG/L	62.3	1.0
BLANK1	00C0429-MB1	Mercury, Total	0.10	u UG/L	0.10	1.0
BLANK2	00C0429-MB2	Mercury, TCLP Leachate	0.10	u UG/L	0.10	1.0



Recra LabNet - Lionville

INORGANICS ACCURACY REPORT 12/15/00

CLIENT: TNUHANFORD B00-029 H1085  
WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 0012L466

SAMPLE	SITE ID	ANALYTE	SPIKED SAMPLE	INITIAL RESULT	SPIKED AMOUNT	%RECOV	DILUTION FACTOR (SPK)
-002	B10F56	Silver, TCLP Leachate	4580	2.5 u	5000	91.5	1.0
		Arsenic, TCLP Leachate	4930	33.9 u	5000	98.5	1.0
		Barium, TCLP Leachate	98400	372	100000	98.0	1.0
		Cadmium, TCLP Leachate	951	17.4	1000	93.4	1.0
		Chromium, TCLP Leachat	4780	98.9	5000	93.6	1.0
		Mercury, TCLP Leachate	170	0.80	200	84.5	50.0
		Lead, TCLP Leachate	4800	25.0 u	5000	96.0	1.0
		Selenium, TCLP Leachat	952	62.3 u	1000	95.2	1.0

Recra LabNet - Lionville

INORGANICS PRECISION REPORT 12/15/00

CLIENT: TNUHANFORD B00-029, H1085  
WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 0012L466

SAMPLE	SITE ID	ANALYTE	INITIAL			DILUTION FACTOR (REP)
			RESULT	REPLICATE	RPD	
-002REP	B10F56	Silver, TCLP Leachate	2.5 u	2.5 u	NC	1.0
		Arsenic, TCLP Leachate	33.9 u	33.9 u	NC	1.0
		Barium, TCLP Leachate	372	365	1.8	1.0
		Cadmium, TCLP Leachate	17.4	17.9	2.8	1.0
		Chromium, TCLP Leachate	98.9	98.4	0.51	1.0
		Mercury, TCLP Leachate	0.80	0.78	3.4	1.0
		Lead, TCLP Leachate	25.0 u	25.0 u	NC	1.0
		Selenium, TCLP Leachate	62.3 u	62.3 u	NC	1.0

Recra LabNet - Lionville

INORGANICS LABORATORY CONTROL STANDARDS REPORT 12/15/00

CLIENT: TNUHANFORD B00-029.H1085  
WORK ORDER: 10985-001-001-9999-00

RECRA LOT #: 0012L466

SAMPLE	SITE ID	ANALYTE	SPIKED	SPIKED	UNITS	%RECOV
			SAMPLE	AMOUNT		
*****	*****	*****	*****	*****	*****	*****
LCS1	99L1808-LC1	Silver, LCS	499	500	UG/L	99.8
		Arsenic, LCS	9890	10000	UG/L	98.9
		Barium, LCS	4960	5000	UG/L	97.3
		Cadmium, LCS	248	250	UG/L	99.2
		Chromium, LCS	489	500	UG/L	97.8
		Lead, LCS	2420	2500	UG/L	96.8
		Selenium, LCS	9100	10000	UG/L	91.0
LCS1	00C0429-LC1	Mercury, LCS	5.3	5.0	UG/L	105.1

0012L466

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client <u>TRU-Hanford B00-029</u>				Refrigerator #																																																																																																																																																																																																																																																																																																																																																																																																					
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Special Instructions: Saf B00-029

## DATE/REVISIONS:

1. Re-log of 00101919002 per SDB007MIL4
2. See lab chron
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

## RECRA LabNet Use Only

Samples were:

- 1) Shipped \_\_\_\_\_ or  
Hand Delivered \_\_\_\_\_

Airbill # \_\_\_\_\_

- 2) Ambient or Chilled \_\_\_\_\_

- 3) Received in Good Condition Y or N

- 4) Labels Indicate Properly Preserved Y or N

- 5) Received Within Holding Times Y or N

COC Tape was:

- 1) Present on Outer Package Y or N

- 2) Unbroken on Outer Package Y or N

- 3) Present on Sample Y or N

- 4) Unbroken on Sample Y or N

- COC Record Present Upon Sample Rec't Y or N

Cooler Temp. \_\_\_\_\_ °C

Relinquished by	Received by	Date	Time
<u>Re-log</u>	<u>T. Koppel</u>	<u>12/1/00</u>	<u>-</u>

Relinquished by	Received by	Date	Time
<b>COMPOSITE WASTE</b>		<b>ORIGINAL REWRITTEN</b>	

Discrepancies Between Samples Labels and COC Record? Y or N  
NOTES: